

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-122413

(43)Date of publication of application : 12.05.1995

(51)Int.Cl. H01F 1/053

B22F 3/00

C22C 38/00

C22C 38/10

H01F 1/08

H01F 41/02

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(54) RARE EARTH PERMANENT MAGNET AND MANUFACTURE THEREOF

(57)Abstract:

PURPOSE: To increase the coercive force by adding heavy rare earth elements such as Dy, Tb, Ho, etc., simultaneously suppressing the decline in the residual magnet flux density due to the addition of the heavy rare earth elements to the utmost.

CONSTITUTION: Within the title rare earth permanent magnet composed of the main phase mainly comprising R2T14B crystal grains (R: one or exceeding two kinds of rare earth elements, T: one or exceeding two kinds of transition metals) as well as the

main component phase comprising R rich phase (R: one or exceeding two kinds of rare earth elements), a heavy rare earth element is to be distributed at least in three positions in high concentration inside R2T14B crystal grains.

LEGAL STATUS

[Date of request for examination] 11.05.2000

[Date of sending the examiner's decision of rejection] 28.11.2003

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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